

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>MA0013</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
<b>Sutter Maintenance Yard Maintenance Area 0013</b>	<b>M *</b>	<b>41.03</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.53		1.53	3.73%	0.13			
Trim / Thin Trees	0.37	0.01	0.41	1.00%				
Encroachments	0.06		0.06	0.15%	12.21	0.26		
Animal Control	0.04	0.02	0.12	0.29%				
Slope Stability	0.04		0.04	0.10%				
Erosion / Bank Caving	0.03		0.03	0.07%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.01		0.01	0.02%				
DWR UCIP Field Study					0.51	0.08		
<i>LMA Totals:</i>	2.08	0.03	2.20	5.36% *	12.85	0.34	0.00	0.00
<b>Unit No. 01 Cherokee Canal RB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
<b>MA0013</b>	<b>M *</b>	<b>18.19</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.90		0.90	4.95%	0.07			
Trim / Thin Trees	0.04	0.01	0.08	0.44%				
Encroachments	0.01		0.01	0.06%	3.11	0.01		
Animal Control	0.01		0.01	0.06%				
Slope Stability	0.02		0.02	0.11%				
Erosion / Bank Caving	0.01		0.01	0.06%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.01		0.01	0.06%				
DWR UCIP Field Study					0.20	0.05		
<i>Unit Totals:</i>	1.00	0.01	1.04	5.72% *	3.38	0.06	0.00	0.00
<b>Unit No. 02 Cherokee Canal LB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
<b>MA0013</b>	<b>M *</b>	<b>22.84</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.63		0.63	2.76%	0.06			
Trim / Thin Trees	0.33		0.33	1.45%				
Encroachments	0.05		0.05	0.22%	9.10	0.25		
Animal Control	0.03	0.02	0.11	0.48%				
Slope Stability	0.02		0.02	0.09%				
Erosion / Bank Caving	0.02		0.02	0.09%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.31	0.03		
<i>Unit Totals:</i>	1.08	0.02	1.16	5.08% *	9.47	0.28	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0013**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway			Bank	Unit Miles
Unit No. 01 Cherokee Canal			Right	18.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M *</b>	
Date of Inspection	4/14/2016 - 4/14/2016		9/21/2016 - 10/6/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_MA0013_01_s_2013_1				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_MA0013_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	16
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_MA0013_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.03	Rating **	C	Issue No.	48
LM End	0.03	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.596549 °	39.596549 °
				-121.702816 °	-121.702816 °
DWR ID	DWR_MA0013_01_s_2016_48				
Comment Code					
DE : Debris					
Inspector Comment					
Soil and organic matter pile on slope					

No Photos

LM Start	0.27	Rating **	U	Issue No.	86
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.593094 °	39.593094 °
				-121.703570 °	-121.703570 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50973 DS_ID:16327 EP_NO: 6135 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (DWR Sutter Yard-AFreitag)4/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5)7/14/2015 Pipe end is still welded solid.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/10/2013 Same as last inspection. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (Permit No. 6135, 1968 - George Washington) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/28/2016 8:45:31 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_50973\_66680.jpg



Overview of the crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.27	Rating **	U	Issue No.	86 (cont)
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.593094 °	39.593094 °
				-121.703570 °	-121.703570 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50973 DS_ID:16327 EP_NO: 6135 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (DWR Sutter Yard-AFreitag)4/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5)7/14/2015 Pipe end is still welded solid.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/10/2013 Same as last inspection. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (Permit No. 6135, 1968 - George Washington) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/28/2016 8:45:31 AM					

Photo 2 of 2 : UCIP\_FA\_2016\_50973\_66683.jpg



Air Vent located on WS.

LM Start	0.45	Rating **	C	Issue No.	43
LM End	0.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.591237 °	39.591237 °
				-121.702015 °	-121.702015 °
DWR ID	DWR_MA0013_01_f_2015_43				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope. The pile was burned.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.63	Rating **	M	Issue No.	46
LM End	0.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589337 °	39.589337 °
				-121.700604 °	-121.700604 °
DWR ID	DWR_MA0013_01_f_2016_46				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

LM Start	0.63	Rating **	M	Issue No.	14
LM End	1.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589272 °	39.581472 °
				-121.700599 °	-121.700518 °
DWR ID	DWR_MA0013_01_s_2012_14				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

LM Start	0.73	Rating **	M	Issue No.	12
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.587905 °	39.587505 °
				-121.700822 °	-121.700880 °
DWR ID	DWR_MA0013_01_s_2012_12				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the landside toe.					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_12\_20160823\_00006.jpg



View of the equipment along the landside toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.87	Rating **	U	Issue No.	44
LM End	0.87	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.585857 °	39.585857 °
				-121.700540 °	-121.700540 °
DWR ID	DWR_MA0013_01_s_2015_44				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_44\_20161010\_00079.jpg



View of the prunings and tree stumps along the landside slope.

LM Start	0.94	Rating **	M	Issue No.	20
LM End	0.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.584885 °	39.584885 °
				-121.700487 °	-121.700487 °
DWR ID	DWR_MA0013_01_s_2013_20				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_20\_20160823\_00009.jpg



View of the prunings along the landside toe.

LM Start	1.17	Rating **	M	Issue No.	52
LM End	1.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.581441 °	39.581385 °
				-121.700532 °	-121.701560 °
DWR ID	DWR_MA0013_01_f_2016_52				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_52\_20161010\_00080.jpg



View of the vegetation along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	1.59	Rating **	U	Issue No.	87
LM End	1.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.576883 °	39.576883 °
				-121.702770 °	-121.702770 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50976  
DS\_ID:16831  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 WS structures still removed. (DWR Sutter Yard- AFreitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)  
4/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)7/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 4/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.62)]  
FS Date: 11/28/2016 9:12:52 AM

Photo 1 of 2 : UCIP\_FA\_2016\_50976\_66695.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	1.59	Rating **	U	Issue No.	87 (cont)
LM End	1.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.576883 °	39.576883 °
				-121.702770 °	-121.702770 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50976  
DS\_ID:16831  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 WS structures still removed. (DWR Sutter Yard- AFreitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)  
4/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)7/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 4/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.62)]  
FS Date: 11/28/2016 9:12:52 AM

Photo 2 of 2 : UCIP\_FA\_2016\_50976\_66699.jpg



Corrugated metal riser with slide gate located on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	1.66	Rating **	M	Issue No.	88
LM End	1.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575816 °	39.575816 °
				-121.702900 °	-121.702900 °
DWR ID					

Comment Code
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Inspector Comment
<p>FS_ID:50977 DS_ID:16345 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 PVC pipe still present blocking the screw gate. (DWR Sutter Yard- AFreitag)4/28/2016 Pvc pipe is still present through the crossing. Slide gate cannot shut fully.7/14/2015 4-inch pipe still present and blocking the screw gate.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS). 36-inch concrete standpipe in the channel with 2 piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&amp;M Manual 519, June 1962 (HLM 1.69)] FS Date: 11/28/2016 9:13:39 AM</p>

LM Start	<b>1.66</b>	Rating **	M	Issue No.	<b>88 (cont)</b>
LM End	<b>1.66</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50977\_66700.jpg



Overview of levee at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_50977\_66704.jpg



WS view looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	2.31	Rating **	M	Issue No.	89
LM End	2.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50978  
DS\_ID:16346  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 Appears abandoned. Unable to find anything on LS. (DWR Sutter Yard- A Freitag)4/28/2016 Appears to be an abandoned crossing. LS headwall and pipe inlet are still completely buried.7/14/2015 Still cannot find an inlet or outlet.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0119 for no inlet or outlet visible. FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Pipe continues across channel. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.35)]  
FS Date: 11/28/2016 9:14:42 AM

LM Start	<b>2.31</b>	Rating **	M	Issue No.	<b>89 (cont)</b>
LM End	<b>2.31</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50978\_66708.jpg



Overview of crossing looking DS.

Photo 2 of 2 : UCIP\_FA\_2016\_50978\_66709.jpg



Corrugated riser located on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.05	Rating **	M	Issue No.	90
LM End	3.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.556310 °	39.556310 °
				-121.706470 °	-121.706470 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50980  
DS\_ID:17372  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 Pipe about 50% full of sediment. (DWR Sutter Yard- A Freitag) 4/28/2016 Pipe on LS is about 50% full of sediment. There is now a concrete pipe that discharges into the LS inlet of this crossing. Not sure where the concrete pipe comes from. 7/14/2015 Crossing appears in good condition. No noticeable issues to report. 5/21/2014 Same as last inspection. 12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. 7/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall. 4/17/2012 LS headwall blocked by sediment (50 % of opening is covered). LS floor is higher than LS pipe invert. WS headwall has been recently cleared of vegetation and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0157 for WS and LS inlet/outlet blocked by sediment.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.8 feet below the crown. Flapgate is located on the waterside (WS). Concrete headwall located on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 3.10)]  
FS Date: 11/28/2016 9:44:54 AM

LM Start	<b>3.05</b>	Rating **	M	Issue No.	<b>90 (cont)</b>
LM End	<b>3.05</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50980\_66718.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_FA\_2016\_50980\_66716.jpg



WS levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	<b>3.05</b>	Rating **	M	Issue No.	<b>91</b>
LM End	<b>3.05</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.556276 °	39.556276 °	
			-121.706510 °	-121.706510 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50981 DS_ID:16348 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 11/16/2016 Unable to locate. (DWR Sutter Yard-A Freitag)4/28/2016 Unable to locate.7/14/2015 Unable to locate.5/21/2014 Same as last inspection.12/2/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate.4/18/2012 Crossing not visible during the Spring 2012 Inspection. Attempt to find crossing during next inspection when slopes are cleared of vegetation. FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee at an unknown depth below the crown. Concrete headwall on both waterside (WS) and landside (LS) ends. Flap gate located on the WS end. [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/28/2016 9:47:48 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.24	Rating **	M	Issue No.	92
LM End	3.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.553490 °	39.553490 °
				-121.706680 °	-121.706680 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50982  
DS\_ID:16349  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 Both gates closed but partially buried and unable to open. (DWR Sutter Yard- AFreitag)4/28/2016 Sediment build up on both gates blocking them from operating properly.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Stem on LS screw gate has been replaced and is now full functional.4/17/2012 LS slide gate stem is bent and prevents gate from fully closing. Both WS and LS have been cleared of debris and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0162 for inoperable gates on WS & LS due to sediment and grass blocking inlet and outlet.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.9 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate visible on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.29)]  
FS Date: 11/28/2016 10:01:28 AM

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>92 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50982\_66725.jpg



Overview of levee crown looking DS at crossing.

Photo 2 of 2 : UCIP\_FA\_2016\_50982\_66724.jpg



Flap gate on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.70	Rating **	M	Issue No.	69
LM End	3.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.546910 °	39.546333 °
				-121.707635 °	-121.707518 °
DWR ID	DWR_MA0013_01_f_2016_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.73	Rating **	M	Issue No.	51
LM End	3.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.546465 °	39.546465 °
				-121.707530 °	-121.707530 °
DWR ID	DWR_MA0013_01_s_2016_51				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove ag equipment from the toe of slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.74	Rating **	M	Issue No.	93
LM End	3.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50985  
DS\_ID:16365  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 Both LS and WS gates buried. (DWR Sutter Yard- A Freitag) 4/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried. 7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional. 5/21/2014 Same as last inspection. 12/2/2013 Same as last inspection. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over. 4/18/2012 LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.82)]  
FS Date: 11/28/2016 10:05:45 AM

LM Start	<b>3.74</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>3.74</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50985\_66743.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_50985\_66741.jpg



WS flap gate blocked by debris.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	4.06	Rating **	M	Issue No.	18
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.541660 °	39.540651 °
				-121.707408 °	-121.707404 °
DWR ID	DWR_MA0013_01_s_2013_18				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_18\_20160823\_00008.jpg



View of the redwood trees along the landside slope.

LM Start	4.15	Rating **	M	Issue No.	68
LM End	4.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.540428 °	39.538823 °
				-121.707423 °	-121.707449 °
DWR ID	DWR_MA0013_01_f_2016_68				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	4.45	Rating **	C	Issue No.	47
LM End	5.35	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.536017 °	39.523020 °
				-121.707705 °	-121.707577 °
DWR ID	DWR_MA0013_01_s_2015_47				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair the ruts in the crown roadway.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.38	Rating **	M	Issue No.	94
LM End	5.38	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522566 °	39.522566 °
				-121.707560 °	-121.707560 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50992  
DS\_ID:16357  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 WS flap gate closed but blocked from opening by sediment. (DWR Sutter Yard- A Freitag) 4/28/2016 WS flap gate blocked from opening by sediment. 7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out. 5/21/2014 Same as last inspection. 12/2/2013 Same as last inspection. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.48)]  
FS Date: 11/28/2016 10:50:24 AM

LM Start	<b>5.38</b>	Rating **	M	Issue No.	<b>94 (cont)</b>
LM End	<b>5.38</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_50992\_66764.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_50992\_66765.jpg



View of WS slope and channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.63	Rating **	M	Issue No.	71
LM End	5.63	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47642 DS_ID:16359 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok.7/13/2015 Both the LS screw gate and WS flapgate are completely buried.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS headwall and flapgate are fully covered in debris and not visible. Need to clear.4/18/2012 High sedimentation build up at WS and LS headwall. Limited inspection due to dense vegetation on WS and LS slope. Need photo of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13D_2011_p_0210 for WS gate submerged. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.73)] FS Date: 5/4/2016 8:56:00 AM					

LM Start	<b>5.63</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>5.63</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_47642\_66793.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_47642\_66794.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.67	Rating **	C	Issue No.	50
LM End	5.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.518731 °	39.518731 °
				-121.709293 °	-121.709293 °
DWR ID	DWR_MA0013_01_s_2016_50				
Comment Code					
DE : Debris					
Inspector Comment					
Scrap metal drbris					

No Photos

LM Start	6.17	Rating **	M	Issue No.	67
LM End	6.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.512157 °	39.512157 °
				-121.713171 °	-121.713171 °
DWR ID	DWR_MA0013_01_f_2016_67				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	6.23	Rating **	M	Issue No.	72
LM End	6.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.511337 °	39.511337 °
				-121.713620 °	-121.713620 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47644  
DS\_ID:16361  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/28/2016 LS screwgate is still completely buried.

7/13/2015 LS screw gate is completely buried.5/21/2014 Same as last inspection.7/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried.12/2/2013 Same as last inspection.4/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.34)]

FS Date: 5/4/2016 9:01:00 AM

LM Start	<b>6.23</b>	Rating **	M	Issue No.	<b>72 (cont)</b>
LM End	<b>6.23</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47644\_66808.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_47644\_66806.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	6.41	Rating **	M	Issue No.	3
LM End	6.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.508928 °	39.501438 °
				-121.714842 °	-121.719715 °
DWR ID	DWR_MA0013_01_s_2012_3				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_3\_20160823\_00002.jpg



View of the agricultural ditch along the toe.

LM Start	6.45	Rating **	U	Issue No.	83
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49923 DS_ID:16362 EP_NO: 5200B Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/28/2016 Hole still present behind the LS flashboards. Rest of the crossing appeared in good condition. (DWR Sutter Yard - afreitag)7/13/2015 Hole still present behind the LS flashboards. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (DWR Sutter Yard - afreitag)4/18/2012 Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends (Permit No. 5200B - 1965, Richvale Irrigation District) (Additional Related Permit(s): Permit No. 5200 and 5200A) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.56)] FS Date: 5/4/2016 9:02:00 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_49923\_66814.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	6.45	Rating **	U	Issue No.	83 (cont)
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49923 DS_ID:16362 EP_NO: 5200B Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/28/2016 Hole still present behind the LS flashboards. Rest of the crossing appeared in good condition. (DWR Sutter Yard - afreitag)7/13/2015 Hole still present behind the LS flashboards. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (DWR Sutter Yard - afreitag)4/18/2012 Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends (Permit No. 5200B - 1965, Richvale Irrigation District) (Additional Related Permit(s): Permit No. 5200 and 5200A) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.56)] FS Date: 5/4/2016 9:02:00 AM					

Photo 2 of 2 : UCIP\_FA\_2016\_49923\_66813.jpg



View of WS slope and toe.

LM Start	6.53	Rating **	M	Issue No.	2
LM End	6.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.507337 °	39.507337 °
				-121.715693 °	-121.715693 °
DWR ID	DWR_MA0013_01_s_2012_2				
Comment Code					
MA : Material					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_2\_20160823\_00001.jpg



View of a concrete block along the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	6.99	Rating **	M	Issue No.	76
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47689 DS_ID:16329 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/28/2016 LS slide gate is still bent. Everything else with the crossing appeared ok.7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged.4/18/2012 LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.10)] FS Date: 5/4/2016 9:11:00 AM					

LM Start	<b>6.99</b>	Rating **	M	Issue No.	<b>76 (cont)</b>
LM End	<b>6.99</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47689\_66833.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 2 : UCIP\_FA\_2016\_47689\_66832.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	7.62	Rating **	M	Issue No.	66
LM End	7.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.494045 °	39.494045 °
				-121.726420 °	-121.726420 °
DWR ID	DWR_MA0013_01_f_2016_66				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the tires from the waterside slope.					

No Photos

LM Start	8.81	Rating **	M	Issue No.	49
LM End	8.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.478648 °	39.478648 °
				-121.736477 °	-121.736477 °
DWR ID	DWR_MA0013_01_f_2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_49\_20161010\_00087.jpg



View of the erosion site along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	8.82	Rating **	U	Issue No.	84
LM End	8.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478573 °	39.478573 °
				-121.736550 °	-121.736550 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:49924  
DS\_ID:16323  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/28/2016 Erosion still present at the LS headwall.  
(DWR Sutter Yard - afreitag)7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/18/2012 Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: [Richvale Irrigation Canal Siphon] 60-inch by 84-inch (5-foot by 7 foot) concrete irrigation conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on the waterside (WS). Concrete headwall on the landside (LS). 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.95)]  
FS Date: 5/4/2016 9:24:00 AM

LM Start	<b>8.82</b>	Rating **	U	Issue No.	<b>84 (cont)</b>
LM End	<b>8.82</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49924\_66881.jpg



Catwalk and screw gate located on WS.

Photo 2 of 2 : UCIP\_FA\_2016\_49924\_66884.jpg



Catwalk & gate located on WS. No daylight point on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	8.89	Rating **	M	Issue No.	73
LM End	8.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477588 °	39.477588 °
				-121.737040 °	-121.737040 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47664  
DS\_ID:16828  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/28/2016 Erosion happening around the concrete structure on LS. Its not yet affecting the levee but will keep monitoring.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Crossing is not visible on WS.  
FIELD\_STRUCT\_DESC: 72-inch irrigation pipe through the levee located 14.2 feet below the crown. Appurtenances include concrete pipe siphon, screw gate, and distribution box visible on the landside (LS). No appurtenances found on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 9.02)]  
FS Date: 5/4/2016 10:10:00 AM

LM Start	<b>8.89</b>	Rating **	M	Issue No.	<b>73 (cont)</b>
LM End	<b>8.89</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47664\_66908.jpg



Overview picture looking south

Photo 2 of 2 : UCIP\_FA\_2016\_47664\_66907.jpg



Headwall at LS distribution box

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	8.90	Rating **	M	Issue No.	70
LM End	8.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477530 °	39.477530 °
				-121.737060 °	-121.737060 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47447 DS_ID:16328 EP_NO: 1234A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/28/2016 Marker missing on WS.7/13/2015 Crossing appears in good condition. No noticeable issues to report.Need to contact owner to replace marker.7/15/2013 Same as last inspection.12/3/2013 Same as last inspection.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: Underground telephone cable through the levee at an unknown depth below the crown. (Permit No. 1234, 1234A, 1947 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 5/4/2016 10:13:29 AM					

Photo 1 of 1 : UCIP\_FA\_2016\_47447\_66909.jpg



Underground telephone cable marker located on WS.

LM Start	8.92	Rating **	M	Issue No.	65
LM End	9.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.477245 °	39.471975 °
				-121.737253 °	-121.740795 °
DWR ID	DWR_MA0013_01_f _ 2016_65				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.70	Rating **	M	Issue No.	5
LM End	9.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.467170 °	39.466860 °
				-121.743887 °	-121.744108 °
DWR ID	DWR_MA0013_01_s_2012_5				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_5\_20160823\_00003.jpg



View of the overgrown trees along the landside slope and toe.

LM Start	9.73	Rating **	M	Issue No.	10
LM End	9.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.466732 °	39.466478 °
				-121.744180 °	-121.744338 °
DWR ID	DWR_MA0013_01_f _ 2013_10				
Comment Code					
MA : Material					
Inspector Comment					
Move the trailer and materials outside the 10 foot easement.					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_10\_20160823\_00005.jpg



View of a trailer and material along the landside toe.

LM Start	9.75	Rating **	M	Issue No.	64
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.466478 °	39.466478 °
				-121.744338 °	-121.744338 °
DWR ID	DWR_MA0013_01_f_2016_64				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.90	Rating **	M	Issue No.	63
LM End	9.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.464527 °	39.464527 °
				-121.745568 °	-121.745568 °
DWR ID	DWR_MA0013_01_f _ 2016_63				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

LM Start	9.96	Rating **	M	Issue No.	17
LM End	10.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.463812 °	39.460569 °
				-121.746113 °	-121.748210 °
DWR ID	DWR_MA0013_01_f_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Dense tulies on the landside toe.					

No Photos

LM Start	11.58	Rating **	M	Issue No.	4
LM End	11.59	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.442821 °	39.442738 °
				-121.759851 °	-121.759908 °
DWR ID	DWR_MA0013_01_s_2016_4				
Comment Code					
Inspector Comment					
2011 - Small erosion pocket likely caused by irrigation diversion structure. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CHK_11-7_R]					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	12.19	Rating **	M	Issue No.	74
LM End	12.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435169 °	39.435169 °
				-121.765290 °	-121.765290 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47672  
DS\_ID:16334  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end.7/13/2015 New screw gate installed inside the WS standpipe. 5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.38)]  
FS Date: 5/4/2016 12:18:00 PM

LM Start	12.19	Rating **	M	Issue No.	74 (cont)
LM End	12.19	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_47672\_66940.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_47672\_66936.jpg



View of WS slope and channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	12.42	Rating **	M	Issue No.	62
LM End	12.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.432116 °	39.428581 °
				-121.767341 °	-121.769739 °
DWR ID	DWR_MA0013_01_f_2016_62				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	12.74	Rating **	M	Issue No.	77
LM End	12.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48049 DS_ID:16336 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/28/2016 Slide gate was removed from inside the WS standpipe.7/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.94)] FS Date: 5/4/2016 12:22:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_48049\_66952.jpg



Overview picture looking south on right bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	12.74	Rating **	M	Issue No.	77 (cont)
LM End	12.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48049 DS_ID:16336 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/28/2016 Slide gate was removed from inside the WS standpipe.7/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.94)] FS Date: 5/4/2016 12:22:00 PM					

Photo 2 of 2 : UCIP\_FA\_2016\_48049\_66959.jpg



View of WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	13.29	Rating **	M	Issue No.	82
LM End	13.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.421088 °	39.421088 °
				-121.775104 °	-121.775104 °
DWR ID					

Comment Code
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**Inspector Comment**

FS\_ID:48060  
DS\_ID:16461  
EP\_NO: 17030  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/28/2016 Lines lines are suspected to be located on the upstream side of the roadway bridge and not the downstream side like the coordinates in this report show. Will need to take new coordinate readings. Markers are missing near levees.7/13/2015 Unable to locate.5/21/2014 Same as last inspection.12/3/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate any markers.4/18/2012 Attempt to locate this crossing during next inspection when tall grass is cleared from slopes-look for utility markers.  
FIELD\_STRUCT\_DESC: 8-inch high density polyethylene (HDPE) communication conduit, contains three 2-inch and three 1.5-inch fiber optic cables, backfilled with bentonite on the ends of the bore casing through the levee at an unknown depth below the crown. Conduit is bored across and under Cherokee Canal and its levees. Permit records indicates the conduit is at least 5 feet below the bottom of the low flow of the channel. Owner is listed in the permit as Pacific Fiber Link LLC but permit Inspection sheets list Worldwide Fiber. (Permit No. 17030, 2000 - Worldwide Fiber)  
FS Date: 5/4/2016 12:27:00 PM

LM Start	<b>13.29</b>	Rating **	M	Issue No.	<b>82 (cont)</b>
LM End	<b>13.29</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48060\_75014.jpg



Marker located along side of road about 200 yds east of levees

Photo 2 of 2 : UCIP\_FA\_2016\_48060\_75015.jpg



Crossing owner contact info

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	13.76	Rating **	U	Issue No.	61
LM End	13.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.416854 °	39.416854 °
				-121.781855 °	-121.781855 °
DWR ID	DWR_MA0013_01_f_2016_61				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_61\_20161010\_00086.jpg



View of the overgrown trees and vegetation along the landside slope and toe.

LM Start	13.76	Rating **	M	Issue No.	75
LM End	13.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416833 °	39.416833 °
				-121.781930 °	-121.781930 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47677 DS_ID:16338 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree.7/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.96)] FS Date: 5/4/2016 12:36:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_47677\_66970.jpg



WS headwall and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	13.76	Rating **	M	Issue No.	75 (cont)	
LM End	13.76	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.416833 °	39.416833 °	
				-121.781930 °	-121.781930 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47677						
DS_ID:16338						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/3/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree.7/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.96)]						
FS Date: 5/4/2016 12:36:00 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_47677\_66971.jpg



View of channel at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	13.77	Rating **	M	Issue No.	78
LM End	13.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48050  
DS\_ID:16339  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/03/2016 ABANDONED CROSSING 7/13/2015  
Abandoned crossing. Slide gate is buried on the WS. 5/22/2014 Same as last inspection. 12/3/2013 Same as last inspection. 7/15/2013 Same as last inspection. 4/18/2012 Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE\_CESPK\_M13D\_2011\_p\_0352 for abandoned gate on WS slope.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel drainage pipe through the levee, 3 feet below the crown. Gate valve on the waterside (WS) slope. 0.25-inch steel plate welded on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.97)]  
FS Date: 5/4/2016 12:35:00 PM

LM Start	<b>13.77</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>13.77</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48050\_66972.jpg



Buried slide gate on the WS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_48050\_66973.jpg



View of LS slope and toe. Unable to find welded plate on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	14.21	Rating **	M	Issue No.	60
LM End	14.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.412776 °	39.412776 °
				-121.788573 °	-121.788573 °
DWR ID	DWR_MA0013_01_f _ 2016_60				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	14.22	Rating **	M	Issue No.	59
LM End	14.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.412726 °	39.412726 °
				-121.788658 °	-121.788658 °
DWR ID	DWR_MA0013_01_f_2016_59				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	14.58	Rating **	U	Issue No.	85
LM End	14.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.409481 °	39.409481 °
				-121.794010 °	-121.794010 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:49925  
DS\_ID:16368  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 5/03/2016 Top of the pipe on the WS has holes in it between the flapgate flange and headwall. Crossing is showing signs of rust and deterioration but it was mostly underwater so could not inspect the inside of the pipe. (DWR Sutter Yard - afreitag)7/13/2015 Both sides of crossing were underwater at the time of inspection. (DWR Sutter Yard - afreitag)5/22/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flapgate is still lodged open. (DWR Sutter Yard - afreitag)4/18/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 14.79)]  
FS Date: 5/4/2016 12:37:00 PM

LM Start	<b>14.58</b>	Rating **	U	Issue No.	<b>85 (cont)</b>
LM End	<b>14.58</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49925\_66976.jpg



Headwall and flapgate located on water side of levee

Photo 2 of 2 : UCIP\_FA\_2016\_49925\_66974.jpg



Headwall and flapgate located on water side of levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Maintenance Area 0013

View of slope instability along the landside slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.72	Rating **	M	Issue No.	79
LM End	15.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.399051 °	39.399051 °
				-121.810550 °	-121.810550 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48494  
DS\_ID:16364  
EP\_NO: 7521  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/3/2016 Tree near the WS pipe end has been cut down. Stump is still in place. Water was too high to be able to see if the pipe inside was damaged. Minor erosion starting behind the WS headwall.7/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. A 48-inch corrugated metal standpipe located approximately 12 feet from landside (LS) levee toe. (Permit No. 7521, 1972 - Askew Ranch) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.95)]  
FS Date: 5/26/2016 7:37:21 AM

LM Start	<b>15.72</b>	Rating **	M	Issue No.	<b>79 (cont)</b>
LM End	<b>15.72</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48494\_66989.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_48494\_66987.jpg



View of WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.77	Rating **	M	Issue No.	81
LM End	15.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398615 °	39.398615 °
				-121.811250 °	-121.811250 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48059  
DS\_ID:16373  
EP\_NO: 11805B  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/03/2016 Crossing was underwater on both sides of levee during this inspection. Looks as if the wooden walkway was the same and no repairs have been made.7/13/2015 LS inlet still underwater. WS screwgate appears in good condition. Wooden walkway to the screwgate needs repairs.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 LS inlet is not visible-underwater. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photos of cleared WS & LS slopes.  
FIELD\_STRUCT\_DESC: 48-inch reinforced concrete irrigation pipe with six concrete collars through the levee, 14.4 feet below the crown to center of conduit. Slide gate, head-wall and wood walkway on two concrete piers on the waterside (WS) of levee. Revetment on the WS slope. Irrigation ditch on the landside (LS). (Permit No. 11805, 11805B, 1979 - Elna Schohr, Inc.) [Additional Reference(s): DWR Levee Log, 1993]  
FS Date: 5/4/2016 12:59:00 PM

LM Start	<b>15.77</b>	Rating **	M	Issue No.	<b>81 (cont)</b>
LM End	<b>15.77</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48059\_66993.jpg



WS view of appurtenances (catwalk, slide gate, and headwall)

Photo 2 of 2 : UCIP\_FA\_2016\_48059\_66995.jpg



WS view of catwalk, slide/screw gate, and headwall

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Maintenance Area 0013

No Photos

View of dense trees along the landside toe.

View of slope instability issue along the landside slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	17.18	Rating **	M	Issue No.	80
LM End	17.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385540 °	39.385540 °
				-121.831280 °	-121.831280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48057 DS_ID:16371 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 5/03/2016 Unable to locate.7/13/2015 Unable to locate.5/22/2014 Same as last inspection.12/3/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate.4/18/2012 Unable to determine if cable is still in use, per permit records indicate communication cable was installed in 1961, 1968 USACE requested to abandon line, 1974 USACE communication is not abandoned. Cable crosses multiple levees. FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (Permit No. 3511, 1961 - US Army Engineer District) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 5/4/2016 1:01:00 PM					

No Photos

LM Start	17.46	Rating **	M	Issue No.	9
LM End	17.50	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.382943 °	39.382635 °
				-121.835447 °	-121.836012 °
DWR ID	DWR_MA0013_01_s_2012_9				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	09/21/2016 10/06/2016	Tariq Chechi

LM Start	17.47	Rating **	M	Issue No.	15
LM End	17.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.382852 °	39.378481 °
				-121.835654 °	-121.842394 °
DWR ID	DWR_MA0013_01_s_2012_15				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

LM Start	18.53	Rating **	M	Issue No.	53
LM End	18.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.373165 °	39.372718 °
				-121.850902 °	-121.851840 °
DWR ID	DWR_MA0013_01_f_2016_53				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_300\_53\_20161010\_00081.jpg



View of the dense vegetation along the landside slope and toe.

LM Start	18.58	Rating **	M	Issue No.	54
LM End	18.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.372793 °	39.372793 °
				-121.851677 °	-121.851677 °
DWR ID	DWR_MA0013_01_f_2016_54				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway			Bank	Unit Miles
Unit No. 02 Cherokee Canal			Left	22.84
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	4/14/2016 - 4/14/2016		9/21/2016 - 10/6/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Shawn Freitag Sutter Maintenance Yard	

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.05	Rating **	M	Issue No.	944
LM End	0.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.573816 °	39.573816 °
				-121.701290 °	-121.701290 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50045  
DS\_ID:16397  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)4/27/216 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the way through to the WS. (DWR Sutter Yard - afreitag)7/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 4in. Pipe was removed and flapgate is closed and ready for high water. (DWR Sutter Yard - afreitag)7/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard - afreitag)4/19/2012 4-6 inch pipe is not part of original crossing--remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end.  
[Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.04).  
FS Date: 5/3/2016 12:46:00 PM

Photo 1 of 2 : UCIP\_FA\_2016\_50045\_45640.jpg



Overview looking south on left levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.05	Rating **	M	Issue No.	944 (cont)
LM End	0.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.573816 °	39.573816 °
				-121.701290 °	-121.701290 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50045  
DS\_ID:16397  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)4/27/216 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the way through to the WS. (DWR Sutter Yard - afreitag)7/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 4in. Pipe was removed and flapgate is closed and ready for high water. (DWR Sutter Yard - afreitag)7/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard - afreitag)4/19/2012 4-6 inch pipe is not part of original crossing--remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.04).  
FS Date: 5/3/2016 12:46:00 PM

Photo 2 of 2 : UCIP\_FA\_2016\_50045\_45642.jpg



Headwall and flap gate on WS. Soil and pipes stockpiled next to headwall.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.06	Rating **	M	Issue No.	50
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.573692 °	39.573692 °
				-121.701286 °	-121.701286 °
DWR ID	DWR_MA0013_02_f _ 2016_50				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.07	Rating **	M	Issue No.	1
LM End	0.17	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.573523 °	39.572455 °
				-121.701387 °	-121.702370 °
DWR ID	DWR_MA0013_02_s_2012_1				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

LM Start	0.21	Rating **	M	Issue No.	53
LM End	0.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.571821 °	39.566737 °
				-121.702372 °	-121.702316 °
DWR ID	DWR_MA0013_02_f_2016_53				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Monitor the tilling to make sure farmer is not encroaching into the levee.					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_53\_20161014\_00102.jpg



View of ag tilling at the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	0.58	Rating **	M	Issue No.	936
LM End	0.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48038  
DS\_ID:16398  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition.7/01/2015 LS pipe end is still about 50% full of sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken.4/19/2012 Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.57)]  
FS Date: 5/3/2016 12:49:00 PM

LM Start	<b>0.58</b>	Rating **	M	Issue No.	<b>936 (cont)</b>
LM End	<b>0.58</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48038\_67047.jpg



Overview looking south

Photo 2 of 2 : UCIP\_FA\_2016\_48038\_67048.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	1.60	Rating **	U	Issue No.	56
LM End	1.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.552195 °	39.551731 °
				-121.704786 °	-121.704721 °
DWR ID	DWR_MA0013_02_s_2016_56				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_56\_20160823\_00015.jpg



View of the agricultural ditch along the landside toe.

LM Start	1.70	Rating **	M	Issue No.	937
LM End	1.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48039 DS_ID:16399 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.7/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.4/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.70)] FS Date: 5/3/2016 12:53:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_48039\_67059.jpg



Overview of crossing

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	1.70	Rating **	M	Issue No.	937 (cont)	
LM End	1.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.551178 °	39.551178 °	
				-121.705660 °	-121.705660 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48039 DS_ID:16399 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.7/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.4/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.70)] FS Date: 5/3/2016 12:53:00 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_48039\_67058.jpg



View of flap gate on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	2.53	Rating **	M	Issue No.	938	
LM End	2.53	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.539195°	39.539195°	
				-121.706070°	-121.706070°	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48040 DS_ID:16400 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 WS flapgate still blocked from opening by sediment buildup.7/01/2015 New screwgate installed on the LS. WS flapgate is still blocked from opening by sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing.4/19/2012 Handle missing on slide gate. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54)] FS Date: 5/3/2016 12:54:00 PM						

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>938 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48040\_67063.jpg



Overview of levee crown looking south

Photo 2 of 2 : UCIP\_FA\_2016\_48040\_67068.jpg



View of WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	2.62	Rating **	M	Issue No.	939
LM End	2.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48042  
DS\_ID:16402  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully.7/01/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.5/29/2014 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.7/10/2013 Same as last inspection.4/19/2012 Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open).  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.63)]  
FS Date: 5/3/2016 12:58:00 PM

LM Start	<b>2.62</b>	Rating **	M	Issue No.	<b>939 (cont)</b>
LM End	<b>2.62</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48042\_67077.jpg



Overview looking south from left levee

Photo 2 of 2 : UCIP\_FA\_2016\_48042\_67076.jpg



Headwall and flap gate located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	2.63	Rating **	M	Issue No.	940
LM End	2.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48043 DS_ID:16403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 Crossing appears to be in good condition.7/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.4/19/2012 Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.65)] FS Date: 5/3/2016 1:01:00 PM					

LM Start	<b>2.63</b>	Rating **	M	Issue No.	<b>940 (cont)</b>
LM End	<b>2.63</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48043\_67087.jpg



Overview at levee crown looking south

Photo 2 of 2 : UCIP\_FA\_2016\_48043\_67084.jpg



Headwall and flap gate located on WS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	2.65	Rating **	M	Issue No.	930
LM End	2.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537466 °	39.537466 °
				-121.706240 °	-121.706240 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48048  
DS\_ID:16415  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 Both gates were underwater for inspection.7/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close.5/29/2014 Same as last inspection.12/9/2013 Both gates were out of water and in good condition.7/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.66)]  
FS Date: 5/3/2016 1:02:00 PM

LM Start	<b>2.65</b>	Rating **	M	Issue No.	<b>930 (cont)</b>
LM End	<b>2.65</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48048\_67090.jpg



Overview looking south from left levee

Photo 2 of 2 : UCIP\_FA\_2016\_48048\_67091.jpg



Headwall and flap gate located on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

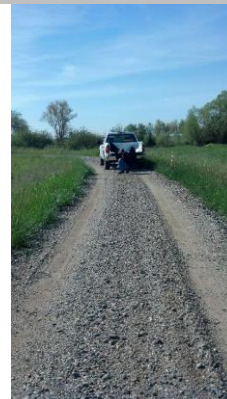
**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.59	Rating **	M	Issue No.	913
LM End	3.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523829 °	39.523829 °
				-121.706290 °	-121.706290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47735 DS_ID:16405 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.7/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris.5/29/2014 Same as last inspection.12/9/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function. 7/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.4/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.61)] FS Date: 5/3/2016 1:04:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_47735\_67094.jpg



Overview looking south from left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.59	Rating **	M	Issue No.	913 (cont)	
LM End	3.59	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.523829 °	39.523829 °	
				-121.706290 °	-121.706290 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47735 DS_ID:16405 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.7/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris.5/29/2014 Same as last inspection.12/9/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function. 7/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.4/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.61)] FS Date: 5/3/2016 1:04:00 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_47735\_67095.jpg



Flap gate submerged in water on WS of levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	3.83	Rating **	M	Issue No.	929
LM End	3.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48046  
DS\_ID:16847  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition.7/01/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain.5/29/2014 Same as last inspection.12/9/2013 Pulled sticks from WS flap gate to allow it to close. Ls gate is still missing.7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks.4/19/2012 LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE\_CESPK\_M13J\_2011\_p\_0010 for WS gate wedged open & missing LS slide gate.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.85)]  
FS Date: 5/3/2016 1:09:00 PM

LM Start	<b>3.83</b>	Rating **	M	Issue No.	<b>929 (cont)</b>
LM End	<b>3.83</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48046\_67107.jpg



Overview looking south on left levee

Photo 2 of 2 : UCIP\_FA\_2016\_48046\_67108.jpg



Headwall and flap gate located on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	4.04	Rating **	M	Issue No.	911
LM End	4.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.526653 °	39.534091 °
				-121.699675 °	-121.690404 °
DWR ID	DWR_MA0013_02_s_2012_911				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_911\_20160823\_00017.jpg



View of agricultural ditch along the toe.

LM Start	4.80	Rating **	M	Issue No.	47
LM End	5.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526924 °	39.526272 °
				-121.684802 °	-121.688169 °
DWR ID	DWR_MA0013_02_f_2016_47				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_47\_20161014\_00103.jpg



View of dense vegetation at the landside levee toe.

LM Start	5.16	Rating **	M	Issue No.	48
LM End	5.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526930 °	39.525429 °
				-121.690577 °	-121.693503 °
DWR ID	DWR_MA0013_02_f_2016_48				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.29	Rating **	M	Issue No.	925
LM End	5.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47723  
DS\_ID:16409  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used.6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13H\_2011\_p\_0035 non-functional crossing due to overgrown vegetation on WS flap gate.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.34)]  
FS Date: 5/3/2016 1:32:00 PM

LM Start	5.29	Rating **	M	Issue No.	925 (cont)
LM End	5.29	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47723\_67146.jpg



Overview of crossing looking downstream.

Photo 2 of 2 : UCIP\_FA\_2016\_47723\_67149.jpg



View of WS headwall with dense vegetation in channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.36	Rating **	M	Issue No.	926
LM End	5.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525361 °	39.525361 °
				-121.693630 °	-121.693630 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47724  
DS\_ID:16410  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/27/2016 Pipe appears abandoned. Should be removed.6/30/2015 Pipe still present with the cap on the waterside.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterside (WS) end. Open on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.41)]  
FS Date: 5/3/2016 1:50:00 PM

LM Start	<b>5.36</b>	Rating **	M	Issue No.	<b>926 (cont)</b>
LM End	<b>5.36</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47724\_67152.jpg



Overview of site

Photo 2 of 2 : UCIP\_FA\_2016\_47724\_67150.jpg



Capped irrigation pipe located on water side of levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	5.71	Rating **	M	Issue No.	49
LM End	5.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.523803 °	39.523803 °
				-121.699804 °	-121.699804 °
DWR ID	DWR_MA0013_02_f_2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
1' by 2' by 4' hole in the levee toe that appears to be a temporary pump intake.					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_49\_20161014\_00104.jpg



View of the man made hole at the waterside levee toe.

LM Start	5.80	Rating **	M	Issue No.	945
LM End	5.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523381 °	39.523381 °
				-121.701270 °	-121.701270 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50046 DS_ID:16411 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)4/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard - afreitag)6/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (DWR Sutter Yard - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.85)] FS Date: 5/3/2016 1:57:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_50046\_67155.jpg



Overview looking south

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	<b>5.80</b>	Rating **	M	Issue No.	<b>945 (cont)</b>							
LM End	<b>5.80</b>	Issue Type +	En	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		39.523381 °	39.523381 °								
			-121.701270 °	-121.701270 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:50046 DS_ID:16411 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)4/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard - afreitag)6/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (DWR Sutter Yard - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.85)] FS Date: 5/3/2016 1:57:00 PM												

Photo 2 of 2 : UCIP\_FA\_2016\_50046\_67157.jpg



Headwall and flap gate on WS.

LM Start	<b>6.12</b>	Rating **	M	Issue No.	<b>55</b>							
LM End	<b>6.12</b>	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Encroachments		39.521634 °	39.521634 °								
			-121.706184 °	-121.706184 °								
DWR ID	DWR_MA0013_02_s_2014_55											
Comment Code												
TR : Tree or limb												
Inspector Comment												
Remove the tree limbs from the landside slope.												

Photo 1 of 1 : FA\_2016\_MA0013\_301\_55\_20160823\_00014.jpg



View of the tree limbs on the landside slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	6.18	Rating **	M	Issue No.	12
LM End	7.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.520843 °	39.502958 °
				-121.706345 °	-121.716953 °
DWR ID	DWR_MA0013_02_s_2012_12				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_12\_20160823\_00005.jpg



View of the agricultural ditch along the toe.

LM Start	7.18	Rating **	M	Issue No.	927
LM End	7.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.507570 °	39.507570 °
				-121.713870 °	-121.713870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47732 DS_ID:17518 EP_NO: 5200B Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/27/2016 Unable to locate.6/30/2015 Unable to locate.5/29/2014 Same as last inspection.12/9/2013 Unable to locate.7/09/2013 Same as last inspection. Unable to locate.4/24/2012 Not found - Need to verify if there are any signs of the structure during next inspection when slopes are cleared. If not will need to coordinate with applicant regarding the fate of this structure. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee embankment, unknown depth below the crown. (Permit No. 5200B, 1967 - Richvale Irrigation District) Additional permits related to this structure include Permit No. 5200 and 5200A. FS Date: 5/3/2016 2:11:00 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	8.30	Rating **	M	Issue No.	928
LM End	8.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.493850 °	39.493850 °
				-121.724780 °	-121.724780 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47733  
DS\_ID:16413  
EP\_NO: 14704  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition. Unusre on the permit issues below.11/4/2014 (DWR-Olivia Magana) Need to contact owner to determine whether both communication are still active and same alignment? permit 14704 (LM 8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No Action Needed to Non-Urgent.5/29/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to verify whether this crossing includes both communication cable lines under permit 14704 (LM 8.38) and 10589 (see LM 8.39).  
FIELD\_STRUCT\_DESC: Steel fiber optic cable through the levee, approximately 3.5 feet below the crown. The cable section across the channel is attached to the Cherokee Canal Dridge. (Permit No. 14704, 1987 - Sprint) [Additional Reference(s): DWR Levee Log, 1993]  
FS Date: 5/3/2016 2:11:00 PM

LM Start	<b>8.30</b>	Rating **	M	Issue No.	<b>928 (cont)</b>
LM End	<b>8.30</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47733\_67191.jpg



Buried cable box located on the LS edge.

Photo 2 of 2 : UCIP\_FA\_2016\_47733\_67192.jpg



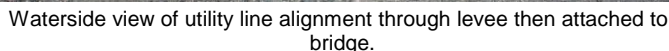
WS view cable line attached to highway bridge.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	8.30	Rating **	M	Issue No.	912 (cont)
LM End	8.30	Issue Type +	En	Location *	LS

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.22	Rating **	C	Issue No.	57
LM End	9.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.481714 °	39.481714 °
				-121.732210 °	-121.732210 °
DWR ID	DWR_MA0013_02_s_2016_57				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	9.66	Rating **	M	Issue No.	914
LM End	9.66	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47742 DS_ID:18912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information. FIELD_STRUCT_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012. FS Date: 5/3/2016 2:17:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_47742\_67292.jpg



Overview of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.66	Rating **	M	Issue No.	914 (cont)
LM End	9.66	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47742  
DS\_ID:18912  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.  
FIELD\_STRUCT\_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012.  
FS Date: 5/3/2016 2:17:00 PM

Photo 2 of 2 : UCIP\_FA\_2016\_47742\_67291.jpg



Marker for buried fiber optic cable on WS.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.67	Rating **	M	Issue No.	915
LM End	9.67	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47743  
DS\_ID:18913  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. But still unknown if this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/9/2013 Same as last inspection.4/24/2012 Authorized/unauthorized encroachment? Contact Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com for additional info. Inquiries pertaining to inspection submit to pipelineinquiries@kindermorgan.com and reference as Engr Station 3173+48 plus include coordinates.  
FIELD\_STRUCT\_DESC: 8-inch high pressure line bored through through the levee at depth unknown. Kinder Morgan is the owner of line--contact information is 213.624-9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. No permit has been identified since crossing was field discovered in 2012.  
FS Date: 5/3/2016 2:18:00 PM

LM Start	<b>9.67</b>	Rating **	M	Issue No.	<b>915 (cont)</b>
LM End	<b>9.67</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_47743\_67295.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP\_FA\_2016\_47743\_67294.jpg



WS marker with utility contact information.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.69	Rating **	M	Issue No.	916
LM End	9.69	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47744  
DS\_ID:18914  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. It is still unknown whether this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.  
FIELD\_STRUCT\_DESC: Underground communication cable through the levee, depth unknown below the crown. Owner of encroachment is Pacific Telephone. No permit has been identified since crossing was field discovered in 2012.  
FS Date: 5/3/2016 2:20:00 PM

LM Start	<b>9.69</b>	Rating **	M	Issue No.	<b>916 (cont)</b>
LM End	<b>9.69</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_47744\_67299.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP\_FA\_2016\_47744\_67300.jpg



Marker located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	9.88	Rating **	M	Issue No.	917
LM End	9.88	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.473410 °	39.473410 °
				-121.738190 °	-121.738190 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47745 DS_ID:17731 EP_NO: 16994 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/27/2016 Unable to locate.6/30/2015 Unable to locate.5/28/2014 Same as last inspection.12/4/2013 Unable to locate.7/09/2013 Same as last inspection. Unable to locate any signs of this crossing.4/24/2012 Unable to find any indicators for this crossing. It appears that this encroachment was not built. Check again during next inspection. FIELD_STRUCT_DESC: 10-inch high-density polyethylene (HDPE) communication conduit through the levee, unknown depth below the crown. Conduit contains fiber-optic cables that goes across and under (bored) Cherokee Canal and its levees. Twelve inner ducts through casing with hand holes placed at each end for initial and future installation of fiber optic telecommunications cable. (Permit No. 16994, 2000 - Level 3 Comm) FS Date: 5/3/2016 2:21:00 PM					

No Photos

LM Start	10.03	Rating **	M	Issue No.	13
LM End	10.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.471517 °	39.465113 °
				-121.739433 °	-121.743592 °
DWR ID	DWR_MA0013_02_s_2012_13				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_13\_20160823\_00006.jpg



View of the agricultural ditch along the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	10.55	Rating **	M	Issue No.	918
LM End	10.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464710 °	39.464710 °
				-121.743810 °	-121.743810 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47746  
DS\_ID:16406  
EP\_NO: 1238  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 4/26/2016 Crossing appears to be in good condition. 6/30/2015 Crossing appears in good condition. 5/28/2014 Same as last inspection. 12/4/2013 Same as last inspection. 7/08/2013 Same as last inspection. 4/24/2012 Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records.  
FIELD\_STRUCT\_DESC: 8-inch steel gas pipe through the levee at an unknown depth below the crown. Utility marker visible at the upstream and downstream face of highway bridge and along highway. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. USA marking on highway indicate 6" STL LN 151. (Permit No. 1238, 1947 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 10.67)]  
FS Date: 5/3/2016 2:23:00 PM

LM Start	10.55	Rating **	M	Issue No.	918 (cont)
LM End	10.55	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47746\_67332.jpg



Utility marker is located near the upstream face of the highway bridge.

Photo 2 of 2 : UCIP\_FA\_2016\_47746\_67333.jpg



Utility is angled. Alignment crosses highway.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

Photo 1 of 1 : UCIP\_FA\_2016\_48065\_67334.jpg



Pole within the channel was not removed.

Photo 1 of 1 : FA\_2016\_MA0013\_301\_18\_20160823\_00007.jpg



View of the agricultural ditch along the toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	12.88	Rating **	M	Issue No.	919
LM End	12.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.434779 °	39.434779 °
				-121.763940 °	-121.763940 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47748  
DS\_ID:16385  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back.6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.4/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13F\_2011\_p\_0147 for limited visibility of LS and WS.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.03)]  
FS Date: 5/3/2016 2:27:00 PM

LM Start	<b>12.88</b>	Rating **	M	Issue No.	<b>919 (cont)</b>
LM End	<b>12.88</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47748\_67336.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

Photo 2 of 2 : UCIP\_FA\_2016\_47748\_67337.jpg



Stand pipe with screw gate WS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	13.40	Rating **	M	Issue No.	19
LM End	16.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.428192°	39.414202°
				-121.768443°	-121.781863°
DWR ID	DWR_MA0013_02_s_2012_19				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_19\_20160823\_00008.jpg



View of the agricultural ditch along the toe.

LM Start	15.37	Rating **	M	Issue No.	60
LM End	15.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.419957 °	39.419957 °
				-121.772700 °	-121.772700 °
DWR ID	DWR_MA0013_02_f_2016_60				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Tules on the landside toe.					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_60\_20161014\_00105.jpg



View of dense tules along the landside toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.44	Rating **	M	Issue No.	932
LM End	15.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48066  
DS\_ID:16376  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 LS inlet appears to be buried as could not locate it. WS flap gate was bolted shut. This appears to be an abandoned crossing. 6/30/2015 Still unable to locate the LS pipe end.

5/28/2014 Same as last inspection. 12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded. 7/08/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall. 4/24/2012 Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0011 for WS gate blocked by vegetation.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.62)]  
FS Date: 5/3/2016 2:30:00 PM

LM Start	<b>15.44</b>	Rating **	M	Issue No.	<b>932 (cont)</b>
LM End	<b>15.44</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48066\_67341.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

Photo 2 of 2 : UCIP\_FA\_2016\_48066\_67343.jpg



Dense vegetation covering the majority of the WS. WS headwall difficult to see through dense vegetation.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.63	Rating **	M	Issue No.	63
LM End	15.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.417470°	39.417470°
				-121.776559°	-121.776559°
DWR ID	DWR_MA0013_02_f_2016_63				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_63\_20161014\_00106.jpg



View of the rodent holes along the landside slope.

LM Start	15.68	Rating **	M	Issue No.	920
LM End	15.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.417043°	39.417043°
				-121.777240°	-121.777240°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47751 DS_ID:16382 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.87)] FS Date: 5/3/2016 2:32:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_47751\_67352.jpg



Overview of crossing looking downstream of the left bank of Cherokee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.68	Rating **	M	Issue No.	920 (cont)	
LM End	15.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.417043 °	39.417043 °	
				-121.777240 °	-121.777240 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47751 DS_ID:16382 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.87)] FS Date: 5/3/2016 2:32:00 PM						

Photo 2 of 2 : UCIP\_FA\_2016\_47751\_67351.jpg



View of WS slope. Limited inspection due to the dense vegetation.

LM Start	15.97	Rating **	C	Issue No.	61
LM End	15.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.414448 °	39.414448 °
				-121.781532 °	-121.781532 °
DWR ID	DWR_MA0013_02_s_2015_61				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	15.98	Rating **	U	Issue No.	64
LM End	15.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.414397 °	39.414397 °
				-121.781596 °	-121.781596 °
DWR ID	DWR_MA0013_02_f_2016_64				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_64\_20161014\_00107.jpg



View of the rodent holes along the landside slope.

LM Start	16.02	Rating **	M	Issue No.	65
LM End	16.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.414021 °	39.414021 °
				-121.782199 °	-121.782199 °
DWR ID	DWR_MA0013_02_f_2016_65				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	16.07	Rating **	M	Issue No.	921
LM End	16.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:47752  
DS\_ID:16377  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 LS headwall was dry and photographed. LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking.6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtances in good condition.4/24/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under sepearte permit.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). Pipe discharges into distribution box on the WS. Divers on dam in stream. Pump located on the WS berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the LS field. Provision can be made to send water over streambed to irrigation overflow area. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 16.26)]  
FS Date: 5/3/2016 2:34:00 PM

Photo 1 of 2 : UCIP\_FA\_2016\_47752\_67353.jpg



Overview of levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	16.07	Rating **	M	Issue No.	921 (cont)
LM End	16.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47752

DS\_ID:16377

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/26/2016 LS headwall was dry and photographed.

LS pipe end was about 50% plugged with soil. WS riser box is still

cracked and appears to still be leaking.6/30/2015 Bee boxes stacked

near the riser box on WS so could not get close enough to see if the

leak issue had been fixed. 5/28/2014 Water appears to be leaking

out of the WS concrete riser box. Causing minor erosion under pipe

near pump structure.12/4/2013 Same as last inspection.7/08/2013

LS slope has been cleared of vegetation and is in good condition. LS

headwall was underwater and unable to be inspected. All WS

appurtenances in good condition.4/24/2012 Limited inspection on LS

slope due to dense vegetation. Need photos of cleared LS slope and LS

headwall. Cracks in riser box. New pump installed recently this work

might be covered under separate permit.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal irrigation pipe

through the levee, 11.7 feet below the crown. Slide gate in corrugated

metal pipe riser on the waterside (WS) slope. Concrete "U" headwall

on the landside (LS). Pipe discharges into distribution box on the WS.

Divers on dam in stream. Pump located on the WS berm, pumps water

from diversion dam into distribution box. Water then flows back through

the levee to the LS field. Provision can be made to send water over

streambed to irrigation overflow area. [Additional Reference(s): DWR

Levee Log, 1993. USACE Sacramento O&amp;M Manual 519, June 1962

(HLM 16.26)]

FS Date: 5/3/2016 2:34:00 PM

Photo 2 of 2 : UCIP\_FA\_2016\_47752\_67359.jpg



Appurtenances on WS.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	16.52	Rating **	U	Issue No.	54
LM End	16.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.409548 °	39.409548 °
				-121.789668 °	-121.789668 °
DWR ID	DWR_MA0013_02_f_2014_54				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_54\_20161014\_00108.jpg



View of the rodent holes along the waterside slope.

LM Start	16.82	Rating **	M	Issue No.	66
LM End	16.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.406811 °	39.406811 °
				-121.794018 °	-121.794018 °
DWR ID	DWR_MA0013_02_f_2016_66				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the barb wire from the waterside slope.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	16.86	Rating **	M	Issue No.	922
LM End	16.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406410 °	39.406410 °
				-121.794600 °	-121.794600 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47753					
DS_ID:16841					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 4/26/2016 Unable to locate.6/30/2015 Unable to locate.5/28/2014 Same as last inspection.12/4/2013 Unable to locate.7/08/2013 Same as last inspection. Unable to locate.4/24/2012 Dense vegetation limited inspection will need to verify is an features are still present at this location during the next inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee at approximately 14.5 feet below the crown. Flap gate located on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 17.06)]					
FS Date: 5/3/2016 2:39:00 PM					

No Photos

LM Start	16.89	Rating **	M	Issue No.	20
LM End	18.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.406217 °	39.389187 °
				-121.794945 °	-121.821233 °
DWR ID	DWR_MA0013_02_s_2012_20				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_20\_20160823\_00009.jpg



View of the agricultural ditch along the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	17.41	Rating **	N	Issue No.	67
LM End	17.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.401331 °	39.401331 °
				-121.802480 °	-121.802480 °
DWR ID	DWR_MA0013_02_f_2016_67				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Approximately eight stumps on the landside toe.					

No Photos

LM Start	17.53	Rating **	M	Issue No.	68
LM End	17.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.400232 °	39.399603 °
				-121.804173 °	-121.805123 °
DWR ID	DWR_MA0013_02_f_2016_68				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Tules on the landside toe.					

No Photos

LM Start	17.64	Rating **	M	Issue No.	69
LM End	17.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.399164 °	39.399164 °
				-121.805787 °	-121.805787 °
DWR ID	DWR_MA0013_02_f_2016_69				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_69\_20161014\_00109.jpg



View of slope instability issue along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

Photo 1 of 1 : FA\_2016\_MA0013\_301\_70\_20161014\_001110.jpg



View of the rodent holes along the landside slope.

Photo 1 of 1 : FA\_2016\_MA0013\_301\_71\_20161014\_00111.jpg



View of the rodent holes along the landside slope.

Photo 1 of 1 : FA\_2016\_MA0013\_301\_21\_20160823\_00010.jpg



View of the agricultural ditch along the toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable        C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	19.92	Rating **	M	Issue No.	923
LM End	19.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378198 °	39.378198 °
				-121.838570 °	-121.838570 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47758  
DS\_ID:16375  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition.6/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.7/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.4/24/2012 Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 20.15)]  
FS Date: 5/3/2016 2:45:00 PM

LM Start	<b>19.92</b>	Rating **	M	Issue No.	<b>923 (cont)</b>
LM End	<b>19.92</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_47758\_67401.jpg



Erosion behind WS headwall looking at the downstream edge of headwall.

Photo 2 of 2 : UCIP\_FA\_2016\_47758\_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	19.94	Rating **	M	Issue No.	72
LM End	20.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.378011 °	39.376318 °
				-121.838859 °	-121.840541 °
DWR ID	DWR_MA0013_02_f_2016_72				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Tules on the landside toe.					

No Photos

LM Start	20.43	Rating **	M	Issue No.	6
LM End	20.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.373091 °	39.370795 °
				-121.845225 °	-121.850124 °
DWR ID	DWR_MA0013_02_s_2013_6				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_6\_20160823\_00002.jpg



View of the overgrown trees along the landside slope.

LM Start	20.45	Rating **	C	Issue No.	51
LM End	20.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.372912 °	39.372912 °
				-121.845500 °	-121.845500 °
DWR ID	DWR_MA0013_02_s_2015_51				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

Photo 1 of 1 : FA\_2016\_MA0013\_301\_73\_20161014\_00112.jpg



10/06/2016

View of the tree limbs along the landside levee toe.

Photo 1 of 1 : FA\_2016\_MA0013\_301\_52\_20161014\_00113.jpg



View of the tree limbs along the landside toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	20.76	Rating **	U	Issue No.	941
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370676 °	39.370676 °
				-121.850490 °	-121.850490 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:49926

DS\_ID:16383

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/8/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/19/2012 LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. (DWR UCIP - omagana)

FIELD\_STRUCT\_DESC: 1 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown.

Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]

FS Date: 5/3/2016 2:49:00 PM

LM Start	<b>20.76</b>	Rating **	U	Issue No.	<b>941 (cont)</b>
LM End	<b>20.76</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49926\_67406.jpg



Corrugated metal pipe risers with slide gates located on WS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_49926\_67407.jpg



Corrugated metal pipe riser for pipe 1 of 3. Slide gate is missing handle.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	20.76	Rating **	U	Issue No.	942
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:49927  
DS\_ID:17014  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 2 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]  
FS Date: 5/3/2016 2:51:00 PM

LM Start	<b>20.76</b>	Rating **	U	Issue No.	<b>942 (cont)</b>
LM End	<b>20.76</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49927\_67416.jpg



WS view of corrugated metal pipe risers .

Photo 2 of 2 : UCIP\_FA\_2016\_49927\_67418.jpg



Riser for pipe 2 of 3.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	20.76	Rating **	U	Issue No.	943
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:49928  
DS\_ID:17185  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 3 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates in corrugated metal pipe risers on the waterside (WS) slope. Pump structure located on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]  
FS Date: 5/3/2016 2:51:00 PM

LM Start	<b>20.76</b>	Rating **	U	Issue No.	<b>943 (cont)</b>
LM End	<b>20.76</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_49928\_67441.jpg



View of corrugated metal risers located on WS.

Photo 2 of 2 : UCIP\_FA\_2016\_49928\_67443.jpg



View of corrugated metal pipe for pipe 3 of 3.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	20.77	Rating **	M	Issue No.	75
LM End	20.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.370641 °	39.370641 °
				-121.850572 °	-121.850572 °
DWR ID	DWR_MA0013_02_f_2016_75				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_75\_20161014\_00114.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	21.35	Rating **	M	Issue No.	935
LM End	21.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.366155 °	39.366155 °
				-121.859880 °	-121.859880 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48493 DS_ID:16384 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.4/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of exisiting pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.60)] FS Date: 5/26/2016 7:31:43 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_48493\_67447.jpg



Overview of crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	21.35	Rating **	M	Issue No.	935 (cont)	
LM End	21.35	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.366155 °	39.366155 °	
				-121.859880 °	-121.859880 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48493 DS_ID:16384 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.4/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of exisiting pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.60)] FS Date: 5/26/2016 7:31:43 AM						

Photo 2 of 2 : UCIP\_FA\_2016\_48493\_67451.jpg



View of WS daylight. Hole present at pipe daylight.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	21.83	Rating **	M	Issue No.	934
LM End	21.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362378 °	39.362378 °
				-121.867350 °	-121.867350 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48036  
DS\_ID:16394  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 WS flap gate is really rusted and deteriorated. May need to be replaced. The rest of the crossing appeared in good condition.6/30/2015 Crossing is in good condition. No noticeable issues to be reported.5/28/2014 Same as last inspection.12/4/2013 WS and LS slopes are in good condition.7/08/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0251 for no outlet visible on WS. FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). Rusted gate located on the WS (gate stuck). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.08)]  
FS Date: 5/3/2016 2:57:00 PM

LM Start	<b>21.83</b>	Rating **	M	Issue No.	<b>934 (cont)</b>
LM End	<b>21.83</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_48036\_67462.jpg



Overview of crossing looking upstream at the left bank of Cherokee Canal.

Photo 2 of 2 : UCIP\_FA\_2016\_48036\_67460.jpg



View of WS headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	21.86	Rating **	M	Issue No.	924
LM End	21.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362103 °	39.362103 °
				-121.867820 °	-121.867820 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47766					
DS_ID:16374					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 4/26/2016 Communication Splice box was still present. Not sure what was done to ever resolve the encroachment issue.6/30/2015 Same as last inspection.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 Unauthorized Encroachment. This crossing is listed multiple times in the USACE Periodic Inspection report as USACE_CESPK_M13E_2011_p_0307, 0315, 0317, 0318 for slope failure on LS hinge. DWR-Flood Maintenance Office records shows that CVFPB has requested AT&T to remove conduit in June 2, 2009 letter. LMA working with CVFPB to resolve.					
FIELD_STRUCT_DESC: *ILLEGAL ENCROACHMENT* Underground telephone cable through the levee. Depth unknown. (AT&T) START latitude 39.36210336, longitude -121.8678207 END latitude 39.35458541, longitude -121.8823409. Line extends from Gridley Colusa Highway to the south end of project levee along landside (LS) shoulder and levee crown hinge point. Levee sloughs along cable trench after heavy rains. [Additional Reference(s): DWR Levee Log, 1993]					
FS Date: 5/3/2016 3:01:00 PM					

Photo 1 of 1 : UCIP\_FA\_2016\_47766\_67480.jpg



View of utility line located on LS toe.

LM Start	21.87	Rating **	U	Issue No.	59
LM End	22.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.362022 °	39.360294 °
				-121.867949 °	-121.871339 °
DWR ID	DWR_MA0013_02_s_2016_59				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	22.03	Rating **	A/W	Issue No.	58
LM End	22.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.360747 °	39.360747 °
				-121.870493 °	-121.870493 °
DWR ID	DWR_MA0013_02_s_2016_58				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Fallen tree on LS slope					

No Photos

LM Start	22.07	Rating **	M	Issue No.	4
LM End	22.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.360410 °	39.359920 °
				-121.871125 °	-121.872067 °
DWR ID	DWR_MA0013_02_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_4\_20160823\_00001.jpg



View of landscaping along the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	22.15	Rating **	M	Issue No.	933
LM End	22.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359827 °	39.359827 °
				-121.872300 °	-121.872300 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48068  
DS\_ID:16391  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS.6/30/2015 Still unable to locate the LS headwall and pipe end.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection. Unable to locate LS headwall.4/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 15.3 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. This pipe runs on an angle through the levee, then underground along the LS slope to historic levee mile (HLM) 22.39 where it enters a ditch on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.41)]  
FS Date: 5/3/2016 3:03:00 PM

LM Start	<b>22.15</b>	Rating **	M	Issue No.	<b>933 (cont)</b>
LM End	<b>22.15</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_48068\_67498.jpg



View of WS slope looking from WS headwall to levee crown.

Photo 2 of 2 : UCIP\_FA\_2016\_48068\_67496.jpg



View of WS slope looking from WS headwall to levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	22.16	Rating **	M	Issue No.	8
LM End	22.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359707 °	39.359707 °
				-121.872555 °	-121.872555 °
DWR ID	DWR_MA0013_02_s_2012_8				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_8\_20160823\_00004.jpg



View of the debris and prunings along the landside toe.

LM Start	22.33	Rating **	A/W	Issue No.	62
LM End	22.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.358419 °	39.358419 °
				-121.875088 °	-121.875088 °
DWR ID	DWR_MA0013_02_s_2016_62				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_62\_20161014\_00115.jpg



View of slope instability issue along the landside slope.

LM Start	22.37	Rating **	M	Issue No.	76
LM End	22.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.358018 °	39.358018 °
				-121.875815 °	-121.875815 °
DWR ID	DWR_MA0013_02_f_2016_76				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	09/21/2016 10/06/2016	Tariq Chechi

LM Start	22.54	Rating **	M	Issue No.	77
LM End	22.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.356775 °	39.356775 °
				-121.878417 °	-121.878417 °
DWR ID	DWR_MA0013_02_f _ 2016_77				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0013\_301\_77\_20161014\_00116.jpg



View of slope instability issue along the landside slope.

LM Start	22.58	Rating **	C	Issue No.	7
LM End	22.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.356498 °	39.356303 °
				-121.879030 °	-121.879417 °
DWR ID	DWR_MA0013_02_s_2012_7				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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